

# Development of Model Criteria for Groundwater Monitoring Related to Oil and Gas Activities



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# Purpose for Today's Meeting

- Present an overview of the proposed process for developing model criteria.
- Gather stakeholder and public perspectives, ideas, and concerns.

# SB 4 Water Board Requirements

- Implement regulatory program for groundwater monitoring of oil and gas-related activities
  - **By July 2015:** Develop “model criteria” for groundwater monitoring for regional and well operator required
  - **By January 2016:** Implement regional groundwater monitoring program

SWRCB activities funded through fees collected by DOGGR from oil and gas operations

# SB 4

## Development of Model Criteria

- Model criteria is being developed in consultation with:
  - Public Stakeholders
  - Technical Experts
  - DOGGR
- Lawrence Livermore National Laboratory (LLNL) to provide written recommendations, in consultation with other experts, to State Water Board staff to develop model criteria
- U.S. Geological Survey (USGS) to collect and analyze data and information to help State Water Board staff develop model criteria

# SB 4

## Development of Model Criteria (cont.)

### ➤ Model criteria covers:

- Operator-required groundwater monitoring near wells subject to well stimulation
- Regional-scale monitoring to be implemented by State Water Board

### ➤ Model Criteria to include:

- Methods for monitoring
- Chemical analyses
- Frequency and duration of monitoring
- Areas to monitor

# Stakeholder Interaction Timeline

- **August 2014** - Public stakeholder meetings to solicit comment on the approach (Bakersfield & LA)
- **Late Summer/Fall 2014** – Public meeting for LLNL (experts) to hear from stakeholders
- **Late 2014** - Public meeting for LLNL to hear feedback and input on their initial draft
- **January 2015** - Board workshop to hear from stakeholders on State Water Board staff proposal for model criteria

# Stakeholder Interaction Timeline (cont.)

- **Early 2015** – Written public comment period model criteria for public review
- **By July, 1 2015** - State Water Board adoption meeting for final model criteria
- **January 1, 2016** – State Water Board begins regional groundwater monitoring



# Additional Information

- **State Water Board Web Site**

[http://www.waterboards.ca.gov/water\\_issues/programs/groundwater/sb4.shtml](http://www.waterboards.ca.gov/water_issues/programs/groundwater/sb4.shtml)

- **DOGGR Web Site**

<http://www.conservation.ca.gov/dog/Pages/WellStimulation.aspx#Item1>

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